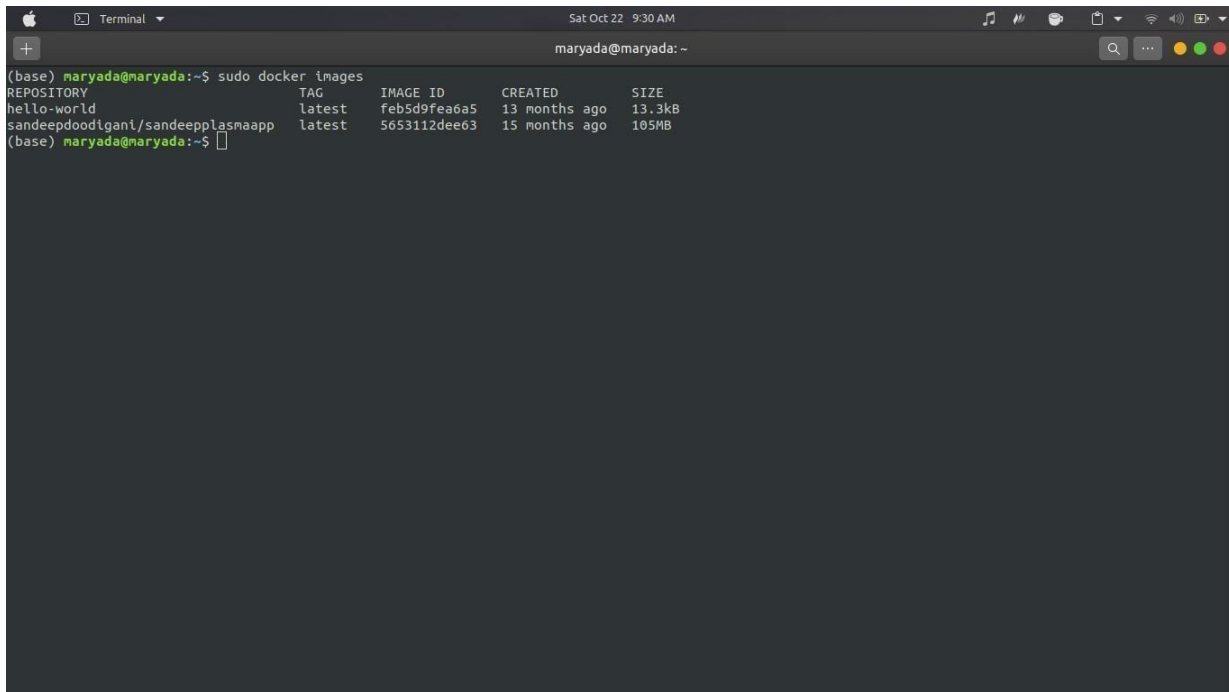


ASSIGNMENT -4

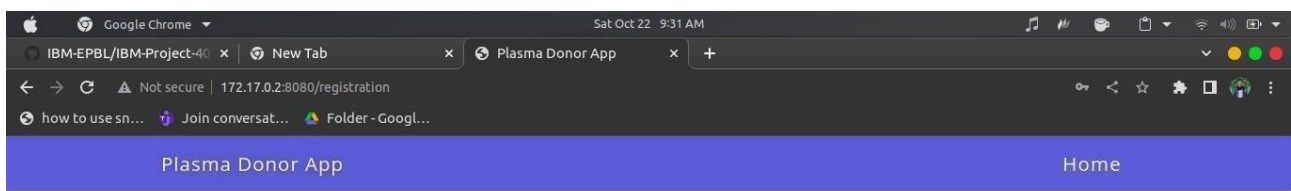
Date	25 NOVEMBER 2022
Team ID	PNT2022TMID28288
Student Name	NAVEEN RAJ G
Maximum Marks	2 Marks

1. Pull an Image from docker hub and run it in docker playground.

Pulled sandeepdoodigani/plasmaapplication and running in docker:

A screenshot of a macOS Terminal window. The title bar shows 'Terminal' and the date 'Sat Oct 22 9:30 AM'. The terminal content shows a user named 'maryada' at a host named 'maryada' running the command 'sudo docker images'. The output lists two Docker images: 'hello-world' (latest tag, 13.3kB size) and 'sandeepdoodigani/sandeepplasmaapp' (latest tag, 105MB size). The terminal prompt is '(base) maryada@maryada:~\$'.

```
Terminal
Sat Oct 22 9:31 AM
maryada@maryada: ~
(base) maryada@maryada:~$ sudo docker run -p 8080:8080 sandeepdoodigant/sandeepplasmaapp
* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on all addresses.
  WARNING: This is a development server. Do not use it in a production deployment.
* Running on http://172.17.0.2:8080/ (Press CTRL+C to quit)
```



Maryada Kumar Lodha D

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+919080532800

Madurai

Uninfected

B Positive

Register

2. Create a docker file for the jobportal application and deploy it in Docker desktop application.

Dockerfile:

FROM python:3.6

WORKDIR /app

ADD . /app

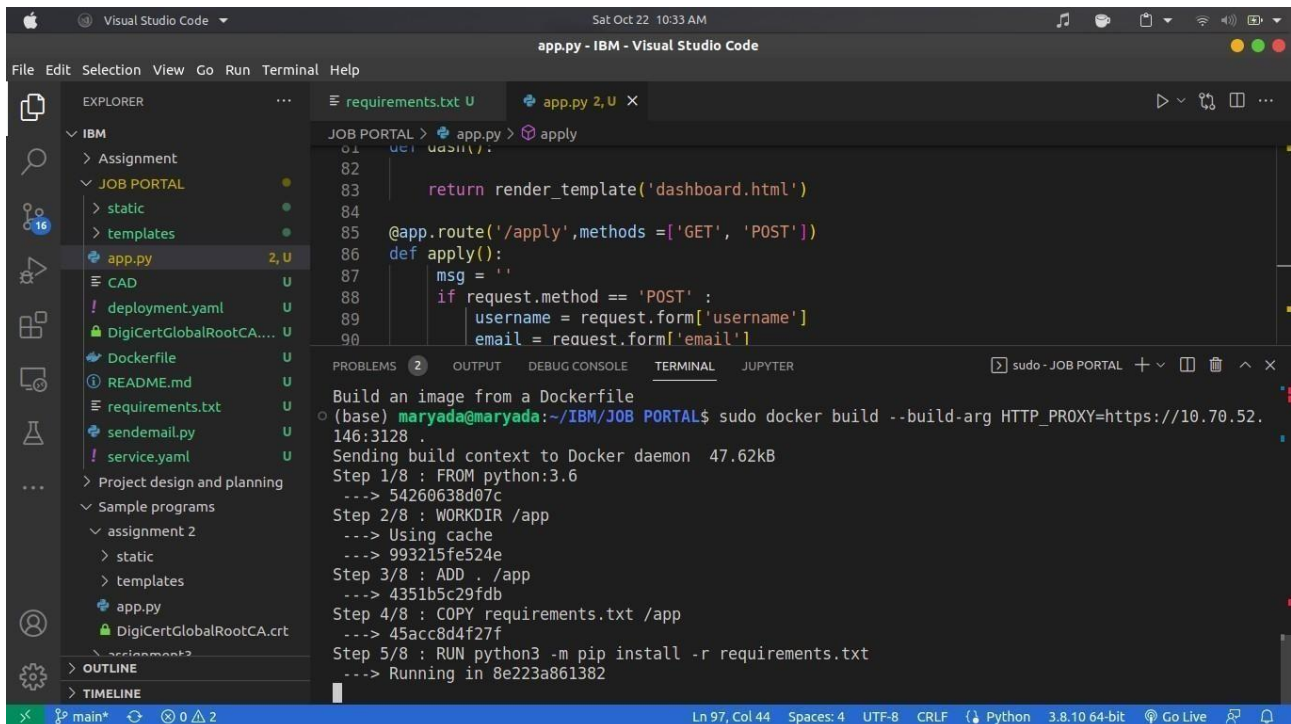
COPY requirements.txt /app

RUN python3 -m pip install -r requirements.txt

RUN python3 -m pip install ibm_db

EXPOSE 5000

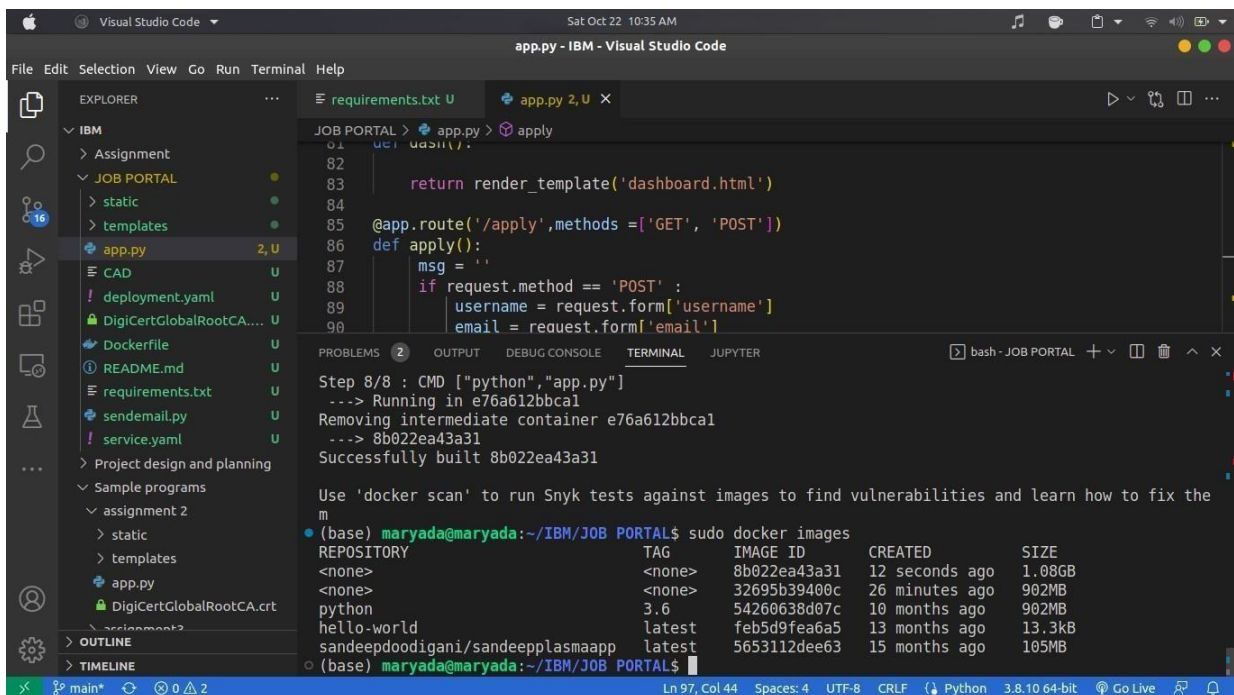
CMD ["python","app.py"]



The screenshot shows the Visual Studio Code interface with a project named 'JOB PORTAL'. The Explorer sidebar on the left shows the file structure, including 'app.py' which is selected. The main editor displays the code for 'app.py', which is a Flask application with a single route '/apply' that renders 'dashboard.html'. The Terminal at the bottom shows the command 'sudo docker build --build-arg HTTP_PROXY=https://10.70.52.146:3128 .' being executed. The output of the build process is visible, showing the creation of a Docker image for the 'python:3.6' base image. The status bar at the bottom indicates the file is at line 97, column 44, using UTF-8 encoding and CRLF line endings, with the Python 3.8.10 64-bit interpreter selected.

```
File Edit Selection View Go Run Terminal Help
JOB PORTAL > app.py > apply
81 def dash():
82
83     return render_template('dashboard.html')
84
85 @app.route('/apply',methods =['GET', 'POST'])
86 def apply():
87     msg = ''
88     if request.method == 'POST' :
89         username = request.form['username']
90         email = request.form['email']

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Build an image from a Dockerfile
(base) maryada@maryada:~/IBM/JOB PORTAL$ sudo docker build --build-arg HTTP_PROXY=https://10.70.52.146:3128 .
Sending build context to Docker daemon 47.62kB
Step 1/8 : FROM python:3.6
--> 54260638d07c
Step 2/8 : WORKDIR /app
--> Using cache
--> 993215fe524e
Step 3/8 : ADD . /app
--> 4351b5c29fdb
Step 4/8 : COPY requirements.txt /app
--> 45acc8d4f27f
Step 5/8 : RUN python3 -m pip install -r requirements.txt
--> Running in 8e223a861382
```

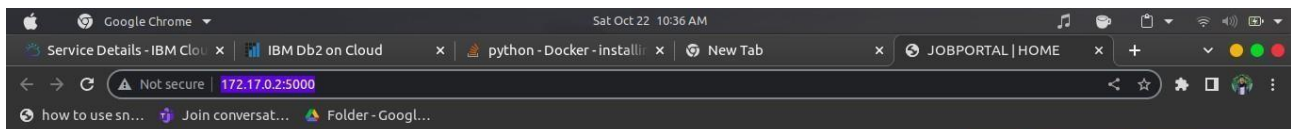


This screenshot shows the continuation of the Docker workflow. The terminal now displays the output of the 'docker build' command, showing the successful creation of the image '8b022ea43a31'. Below this, the command 'docker scan' is run to perform a security scan on the image. The output of the scan is shown, indicating that no vulnerabilities were found. The status bar at the bottom remains the same as in the previous screenshot.

```
File Edit Selection View Go Run Terminal Help
JOB PORTAL > app.py > apply
81 def dash():
82
83     return render_template('dashboard.html')
84
85 @app.route('/apply',methods =['GET', 'POST'])
86 def apply():
87     msg = ''
88     if request.method == 'POST' :
89         username = request.form['username']
90         email = request.form['email']

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Step 8/8 : CMD ["python","app.py"]
--> Running in e76a612bbca1
Removing intermediate container e76a612bbca1
--> 8b022ea43a31
Successfully built 8b022ea43a31

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix the m
(base) maryada@maryada:~/IBM/JOB PORTAL$ sudo docker images
REPOSITORY          TAG          IMAGE ID       CREATED        SIZE
<none>              <none>       8b022ea43a31  12 seconds ago 1.08GB
<none>              <none>       32695b39400c  26 minutes ago 902MB
python              3.6         54260638d07c  10 months ago 902MB
hello-world         latest      feb5d9fea6a5  13 months ago 13.3kB
sandeepdoodigani/sandeepplasmaapp latest      5653112dee63  15 months ago 105MB
(base) maryada@maryada:~/IBM/JOB PORTAL$
```

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Aboutus

Mission

SMARTBRIDGE is an edTech organization with a vision to bridge the gap between academia & industry. Our outcome-based experiential learning programs on emerging technologies (Internet of Things, Machine Learning, Data Science, Artificial Intelligence, Robotics) are building skilled entry-level engineers, for the corporate world. .

Vission

Our main objective is to bridge the existing gaps between prevailing industry standards and what the academics offer to the graduates while passing out of university. SmartBridge offers suitable skill deployment and training to the young talent before on boarding their first job. Our skill development programs are designed considering the present expectations in the industry.

Objective

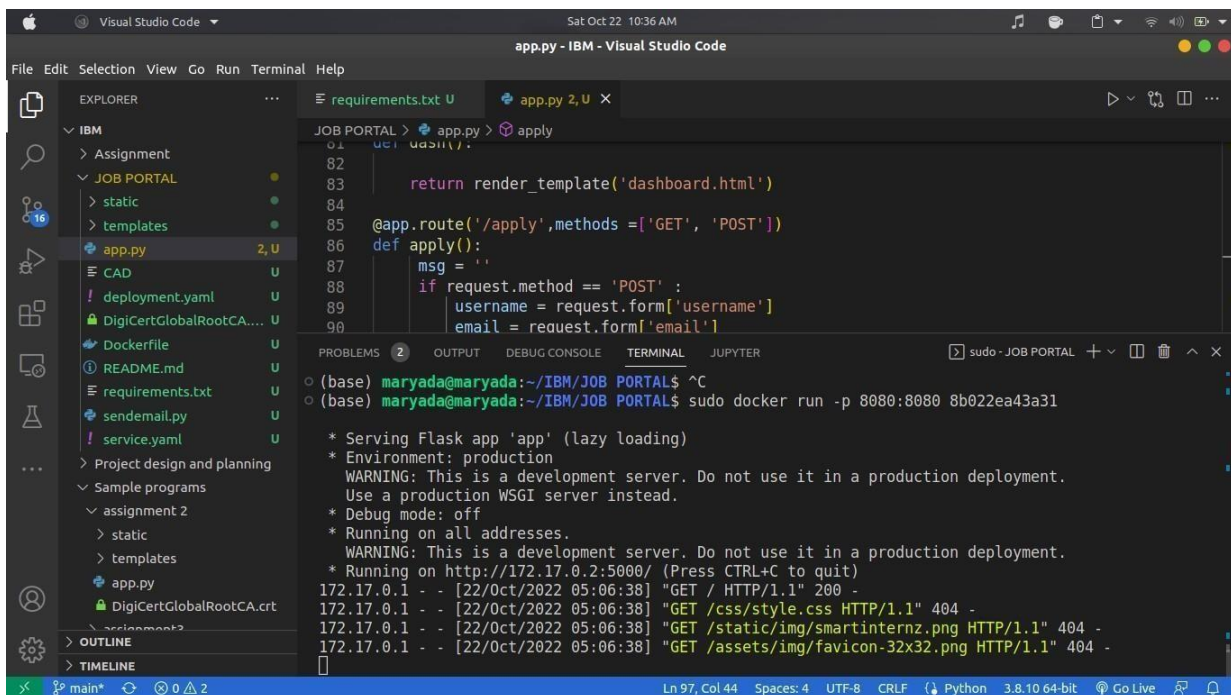
Well directed career guidance programs for educational institutions
Appropriate certification courses that suit the industry need
Train the trainers; expanded awareness about the current industry standards
Liaise with corporates to offer niche internships
Establish technology development centers in colleges
Specialised incubation centers in collaboration with corporates

JobPortal

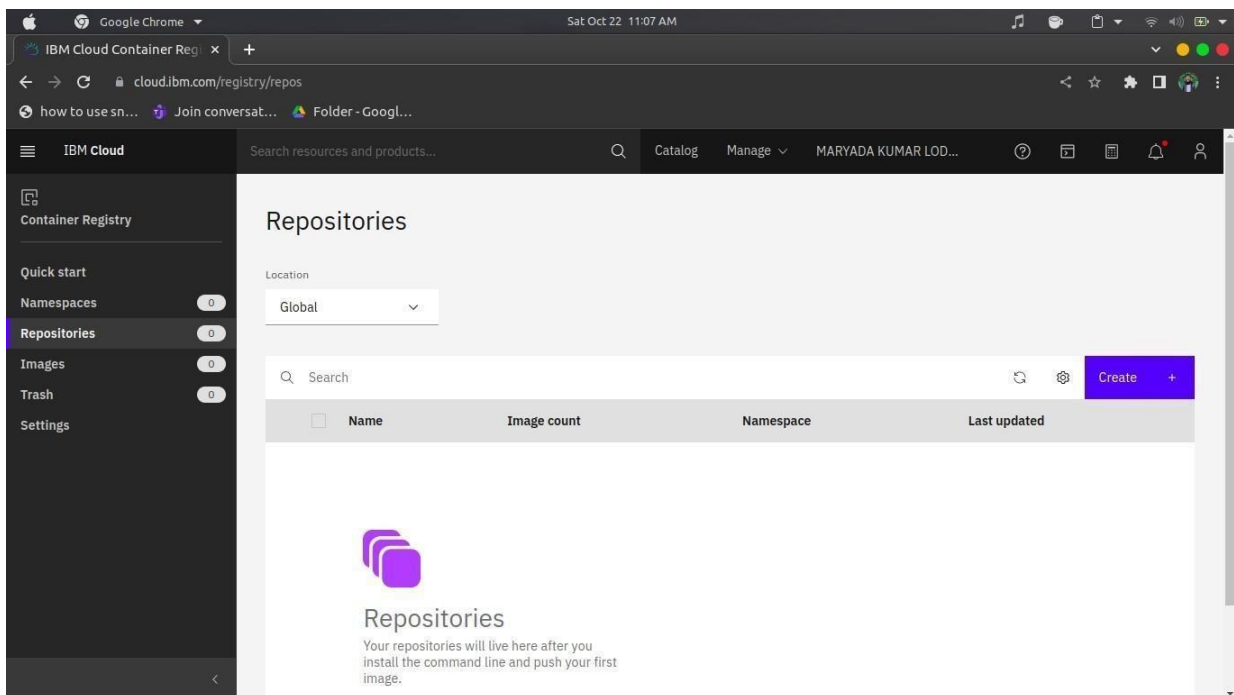
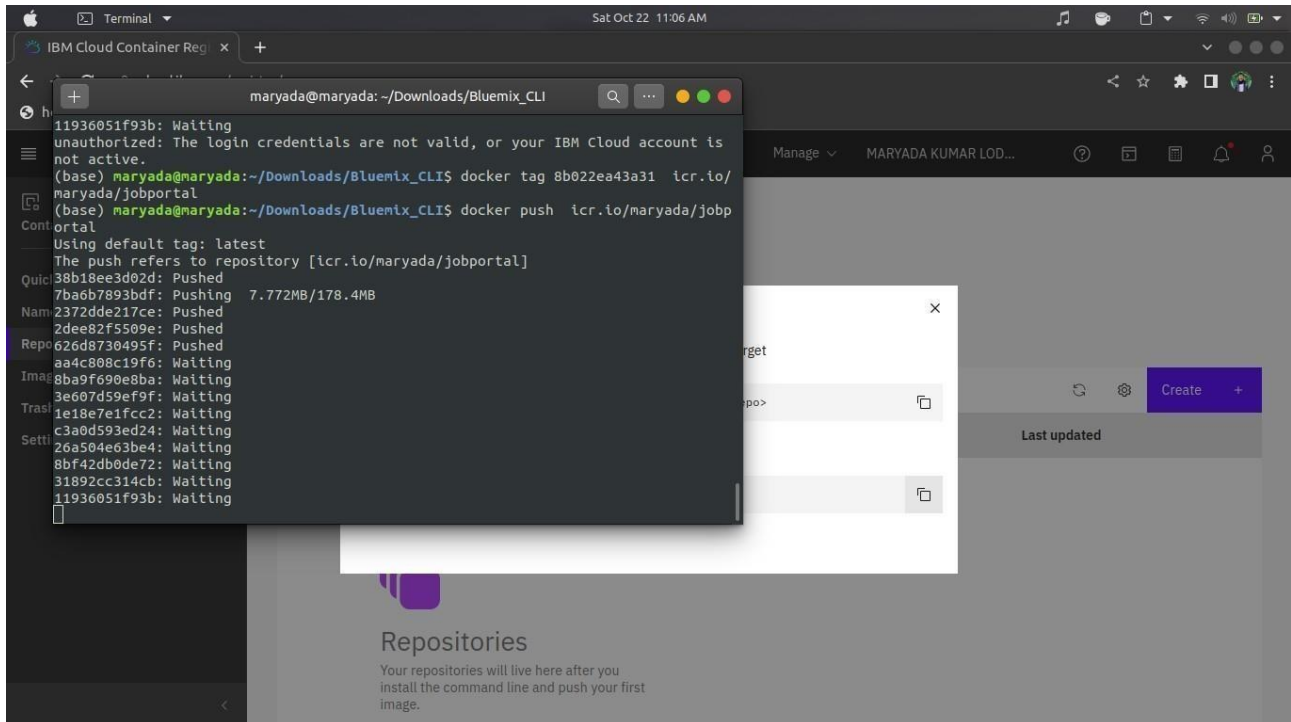
Lorem ipsum dolor sit amet consectetur adipiscing elit. Voluptatum quis, reiciendis id magni magnam, accusamus nobis in, temporibus molestias ab placeat rerum aperiam illum perspiciatis ducimus non! Fugiat, odit ducimus.

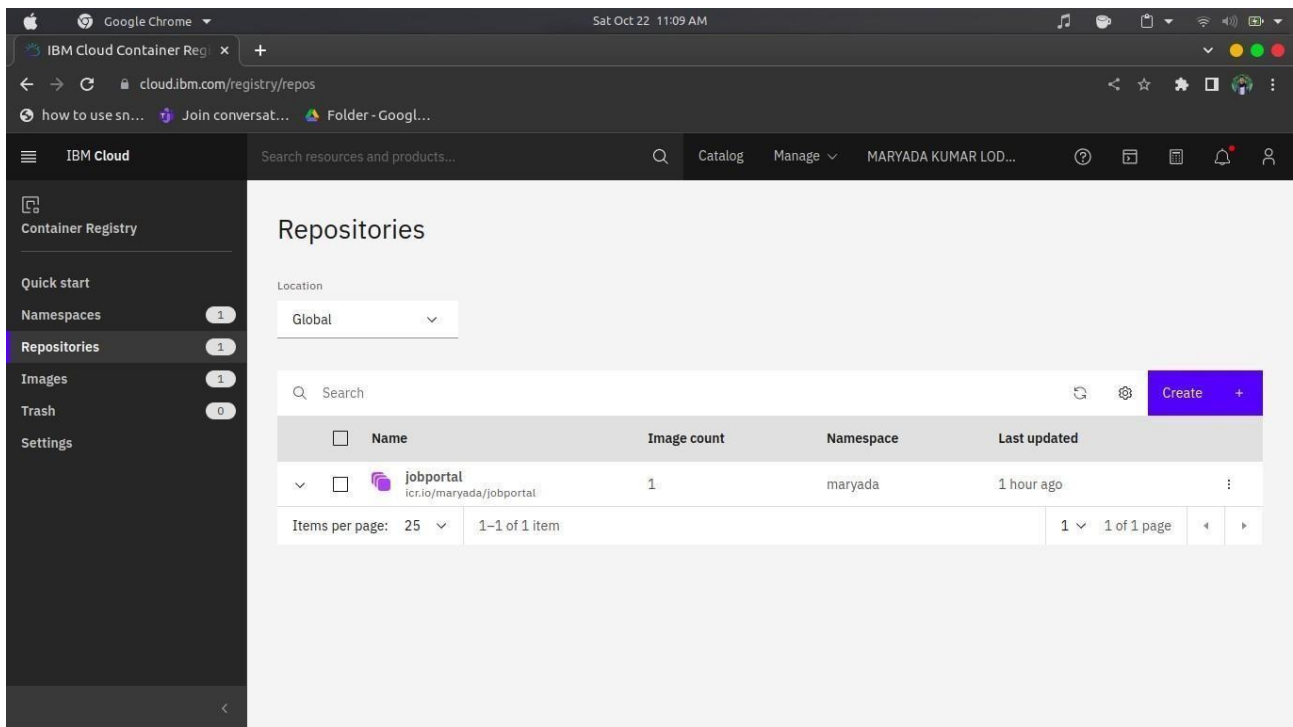
Get in Touch

- jobportal@gmail.com
- +91 8977787657

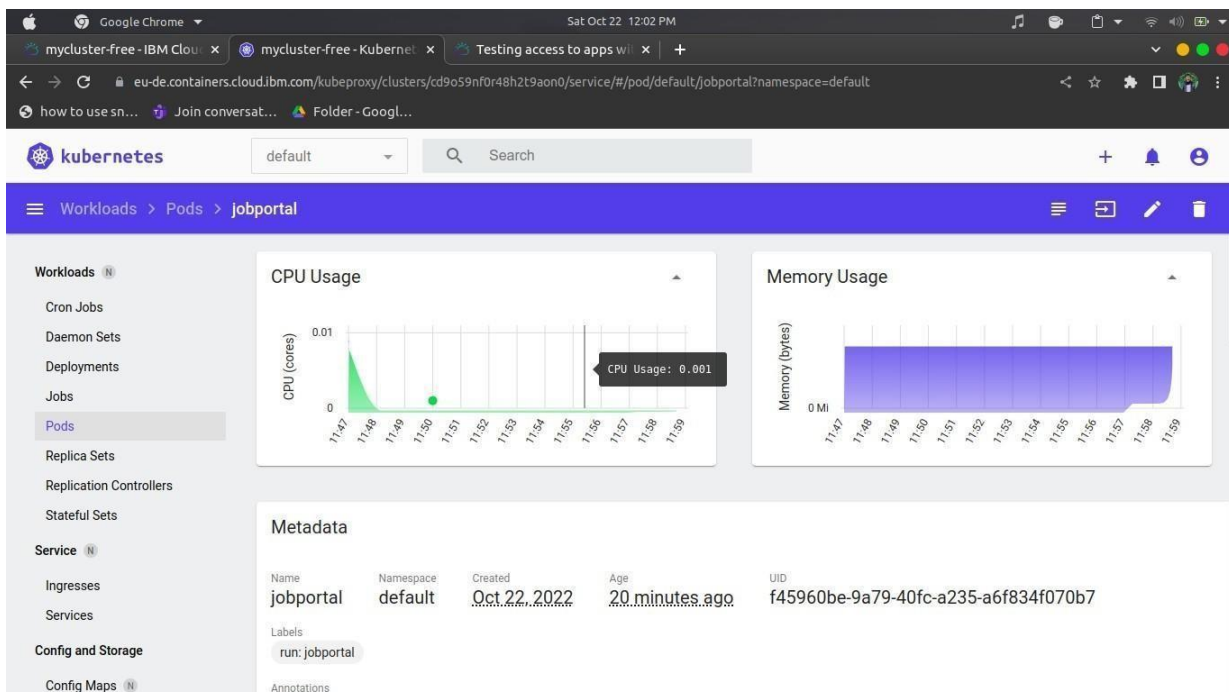


3. Create a IBM container registry and deploy helloworld app or jobportalapp.





4. Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.



Google Chrome

Sat Oct 22 12:02 PM

mycluster-free - IBM Cloud

mycluster-free - Kubernetes

Testing access to apps with

eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cd9o59nf0r48h2t9aon0/service/#/pod?namespace=default

how to use sn... Join conversat... Folder - Googl...

kubernetes

default

Search

+

🔔

👤

Workloads > Pods

Workloads

Cron Jobs

Daemon Sets

Deployments

Jobs

Pods

Replica Sets

Replication Controllers

Stateful Sets

Service

Ingresses

Services

Config and Storage

Config Maps

CPU Usage

Memory Usage

Pods

Name	Images	Labels	Node	Status	Restarts	CPU Usage (cores)
jobportal	Show all	Show all	10.144.216.52	Running	0	1.00m
lb4-simple-web-app-deployment	Show all	Show all	10.144.216.52	ImagePullBackOff	0	-